

CSCI 361: Reading Assignment # 14

Your Name: _____

Due: Tuesday, Nov 19, in class

Assigned reading for this lecture:

- Sipser Third Edition 7.5 (**Additional NP Complete Problems**)

Read the Reduction from **3SAT** to **HAMPATH** (Theorem 7.46).

Questions:

1. What shape is the variable gadget? How does the order in which this shape is traversed correspond to the truth value of the corresponding variable?
2. What is the clause gadget? How is it connected to the variable gadgets?